





Spring



Summer



Autumn



Winter

*at any season  
an  
appropriate  
gift*

*Yosemite*

*Nature Notes*

A subscription for you or gift subscriptions for your friends will bring the Yosemite story, told accurately and interestingly, twice a year.

**Each subscription: 1 year \$1.50; 2 years \$2.50; 3 years \$3.50.**

Revenue from the activities of the Yosemite Natural History Association is devoted entirely to assisting the park naturalist division in the furtherance of research and interpretation of the natural and human story in Yosemite National Park.

Send subscriptions to:

**YOSEMITE NATURAL HISTORY ASSOCIATION, INC.  
BOX 545, YOSEMITE NATIONAL PARK, CALIFORNIA**



# YOSEMITE

LIFE SCIENCES

VOLUME XXXVIII - NUMBER 2

FEBRUARY 1959



30 1959

Yosemite Fall

—NPS



IN COOPERATION WITH THE NATIONAL PARK SERVICE.



—Yosemite Mu

Built originally in 1858, the Upper Hotel was bought by J. M. Hutchings in 1864 and it became known as the Hutchings House. With the addition of a room around the large cedar in back was also referred to as the Cedar Cottage.



John C. Preston, Park Superintendent

Douglass H. Hubbard, Park Naturalist

Robert F. Upton, Associate Park Naturalist

Paul F. McCrary, Assistant Park Naturalist

Sigismund J. Zachwieja, Junior Park Naturalist

Robert A. Grom, Park Naturalist Trainee

DL. XXXVIII

FEBRUARY 1959

NO. 2

## PRESIDENTIAL VISITS TO YOSEMITE

**By Marvin R. Koller, Ranger-Naturalist**

### Part I

The mute testimony that Yosemite National Park offers scenic wonders most unique in the world, is the increasing numbers of visitors who pass through the entrance stations. People from all walks of life—from many foreign lands—come to Yosemite, attracted by the lodestone of great beauty. The appeal of this park has reached even to the White House where the first citizens of the world, the Presidents of the United States, have expressed interest in coming to see for themselves its granite domes, its leaping waterfalls, its gigantic trees, its breathtaking scenery.

It occurred to me that perhaps you who have been visitors to Yosemite would like to know some of the details of the trips of our most distinguished visitors, our presidents. Their names, their historical importance, stand out among the many millions who have come here. All

the details cannot be given since their trips were guarded by special escorts whose purpose was to see to it that the personal safety and privacy of the president was guaranteed.

When most of us come to Yosemite we may travel about freely, untroubled by a host of people following us to catch our every word or gesture. To distinguished personages such as presidents, the price of fame is to be watched and followed by many people. In a democracy wherein a people elect their leader this person becomes, indeed, a man belonging to the people. The very importance of the person occupying the office of President necessitates the cloaking of his movements and the guarding of his person.

Not all the men who visited Yosemite and called "President" actually were President of the United



THE SIERRA CLUB  
CORDIALLY WELCOMES  
WARREN G. HARDING  
PRESIDENT OF THE UNITED STATES  
MRS. HARDING  
AND THE MEMBERS OF  
THEIR PARTY

..

YOSEMITE NATIONAL PARK  
JULY 29 AND 30  
1923

President Warren G. Harding was on his deathbed at the time these invitations to a reception in his honor were being

## SIERRA CLUB

Founded 1892

402 MILLS BUILDING, SAN FRANCISCO, CALIFORNIA

## THE PURPOSES OF THE CLUB ARE:

to explore, enjoy and render accessible the mountain regions of the Pacific Coast; to  
 collect authentic information concerning them; to enlist the support and co-operation of  
 the people and the Government in preserving the forests and other natural features of  
 the Sierra Nevada Mountains.



JOHN MUIR, President 1892 to 1914

## BOARD OF DIRECTORS, 1923-1924

|                             |               |
|-----------------------------|---------------|
| Mr S. Tappaan, President    | Los Angeles   |
| Mr L. Huber, Vice-President | San Francisco |
| Mr E. Colby, Secretary      | San Francisco |
| Mr LeConte, Treasurer       | Berkeley      |
| Mr William Frederic Badé    | Berkeley      |
| Mr S. Bernays               | Los Angeles   |
| Mr H. Bridges               | Piedmont      |
| Mr West Dawson              | Los Angeles   |
| Mr Nelson Hackett           | San Francisco |
| Mr Elia S. Harwood          | Upland        |
| Mr Hall McAllister          | San Francisco |
| Mr Can McDuffie             | Berkeley      |
| Mr on Randall Parsons       | Berkeley      |
| Mr ert M. Price             | Reno, Nevada  |
| Mr on J. Treat              | Stanford      |

## HONORARY VICE-PRESIDENTS

|                          |                     |
|--------------------------|---------------------|
| Mr ert Underwood Johnson | New York            |
| Mr d Starr Jordan        | Stanford University |
| Mr orace McFarland       | Harriaburg, Pa.     |
| Mr en T. Mather          | Washington, D. C.   |
| Mr am B. Greeley         | Washington, D. C.   |
| Mr on L. Kellogg         | Stanford University |
| Mr C. Merriam            | Washington, D. C.   |
| Mr Barton Payne          | Chicago, Illinois   |

—Courtesy of  
 Henry E. Huntington  
 Library and Art Gallery

lived by many important persons. He died only a day's  
 away from Yosemite National Park on August 2, 1923.

States at the time of their visitation. They may have come before or after their term in office. A study of the records reveals that of a total of eight Presidents who have visited Yosemite, five were not President of the United States at the time of their visits.

A tragic story may be found in the case of President Warren G. Harding. He was to come to Yosemite on July 29 and 30, 1923. Elaborate arrangements had been made and an itinerary planned. The route of travel was carefully studied and men and equipment placed so as to facilitate the orderly movement of the President. Traffic had to be routed away from the presidential party or there would be a tremendous traffic jam and the President would be greatly inconvenienced. The speed of travel was noted and special stops of certain specified time intervals were planned. The comfort and safety of the President is kept constantly in mind by those charged with the responsibilities of the trip. In the case of President Harding, all these arrangements were prepared when death came to the nation's leader in San Francisco. Thus, President Harding died a day's journey away from one of his objectives, Yosemite.

As many of you know, President Abraham Lincoln signed the bill creating the Yosemite Grant in 1864. No man who occupied the nation's highest office came to Yosemite until 1875. The honor of being the first President to come to Yosemite fell to James Garfield. In six short years after his Yosemite visit, James Garfield took office as President. He came to Yosemite, however, as a member of Congress and was known officially as General James Garfield. On that occasion, General Garfield

presided over a meeting which expressed its apologies to James Hutchings who had been evicted from his hotel by the Park Commissioners. The resolution passed by this meeting told Hutchings that Yosemite would always provide shelter for a gentleman who had pioneered so ably in its behalf. Incidentally, James Garfield is buried in my old hometown, Cleveland, Ohio, and when I visit there soon I shall view his memorial with a new insight into Garfield's character.

Four more years passed before another President visited Yosemite. This time the great man was a former general and ex-president. The gentleman to whom I am referring was General Ulysses S. Grant who was making a tour of the world at the conclusion of his presidential term. General Grant signed the Grand Register of the Cosmopolitan House on October 2, 1879. This would make General Grant one of the few Presidents who saw Yosemite in the fall rather than summer time.

Another four years elapsed and once again another ex-president arrived for a short visit to Yosemite—this time Rutherford B. Hayes. President Hayes served in office from 1877 to 1881, the year the tunnel was cut in the world famous "Tunnel Tree" in the Mariposa Grove. In 1883, with a party of twelve, Mr. Hayes enjoyed the sights of Yosemite. He was accommodated at the Sentinel Hotel, which stood for many years on the south bank of the Merced River facing Yosemite Falls (There are markers to be found today to the west of Sentinel Bridge which mark this famous hotel's corners.)

*This is Part I of a three part series. Part II will appear in the March issue.*



## MANZANITA — A NATIVE CALIFORNIAN

By Robert W. Crippin, Ranger-Naturalist

Many interesting features make manzanita unique among California shrubs. The twisted and curved branches of red-mahogany color are picturesque, and are beloved by the artist and park visitor alike. The wood is as hard as bone and generally must be sawed, rather than cut with an ax. The leaves stand up edgewise to the sky in a way that minimizes their exposure to the rays of the sun, and thus reduces the evaporation of moisture.

It might be said that the manzanita sheds its skin like a snake. Naked stems are covered by a paper-thin and satiny-smooth bark of rich red. As the stems expand in growth this thin bark gives way, cracks and peels off in curling flakes, leaving a tender new bark exposed to view. At first the new bark is soft green, but it is soon burned by the sun into a rich mahogany. Immediately after flowering the plant generally sends out new foliage and twig growth in brilliant colors of crimson and scarlet. The colored foliage of the new growth is more spectacular than the lovely, urn-shaped flowers of white pink.

The manzanita was used extensively by the California Indians, and the Spanish and early American settlers. Only a little less than the acorn and the manzanita berry enter into the diet of the Indians. The fruit was eaten either raw or cooked; however it was generally ground and used as a base for cider. Quantities of the berries were packed home by the women and saved for winter con-

sumption. It has been estimated that an acre of selected manzanita bushes is capable of producing as much solid nourishment as an acre of wheat. The leaves were sometimes used for smoking and from the wood were fashioned pipes, digger sticks, and acorn mush paddles. The leaves were used for a tea to cure colds and to ease the effects of poison oak.

In mission days, when iron was scarce, the hardness of the wood seems to have recommended it as a substitute for nails. Manzanita pegs were used in the building of Mission Dolores at San Francisco.

The white settlers of the West used the berries to make cider, vinegar, brandy, and jelly. Today the branches are popular as decorative pieces, for the making of ming trees, lamp bases, book ends, and pipe bowls. In addition, the wood has been a source of firewood and charcoal.

In many localities the manzanitas are among the first plants to appear in burned-over areas. Some sprout from root crown, while others re-establish by abundant seeding initiated by the heat of the fire. This rapid recovery often prevents erosion. It also offers shade and moisture conservation, enabling the less durable conifers to reseed and return the devastated area to the climax forest in a shorter time.

The members of this genus are evergreen shrubs with crooked branches and smooth, reddish, exfoliated bark. The leaves are entire (rarely toothed), alternate, and more



Mariposa Manzanita.

—Upton, N

or less vertical by the twisting of the petioles; firm or leathery and often similar on both surfaces. The flowers are pinkish or white, jug or urn-shaped, five-toothed and borne on terminal cluster or panicle composed of a few or several racemes, and are small and usually nodding. The fruit is a drupe or berry with four to ten seed-like nutlets that may be separable or united into a solid stone.

There are about fifty species of manzanitas distributed in North and Central America, chiefly on the Pacific Coast. Thirty-eight species with several varieties and numerous forms are native to California. Three species are common in Yosemite National Park

The genus name, *Arctostaphylos*, is derived from the Greek *arktos*, a bear, and *staphule*, a grape, in reference to the feeding of bears upon the berry-

like fruits. The Spanish word, manzanita, refers to the fruit and means "little apple".

The genus *Arctostaphylos* is easily recognized, but the classification and identification of the various forms are rather difficult. The Yosemite manzanitas vary in growth-form from prostrate, mat-forming shrub to small trees. Some crown sprout after fires or after cutting, while others are completely destroyed by fires. The foliage varies from dark glossy green to gray or whitish hue.

The Yosemite species of manzanita will be briefly outlined for easy identification:

#### *Mariposa manzanita*

Mariposa manzanita is an erect branched shrub, four to eight feet high, that is common in the Upper

onoran and Transition zones. This is the most common manzanita on the valley floor and on the northern all and talus slopes of Yosemite valley, and is found up to an elevation of 6000 feet.

The bark is smooth and dark-red-brown and the branchlets and inflorescence are glandular hairy with short stiff hairs. The leaves are early hairless or bald, with few exceptions, and are firm or rigid, oval elliptic, rounded to acute with a short, soft point at the tip, entire (rarely toothed), pale grayish-green,

rough in texture and from one-half to one and three quarters inches long and three quarters to one and a quarter inches broad. The petals are usually about one quarter inch long and are usually covered with hairs.

The white or pinkish-white flowers are borne in flat-topped clusters or panicles. The stems of the flower-clusters are glandular and hairy, from one quarter to one third inch long. The red berry is hairy and sticky, scarcely a quarter inch broad, with three solitary and two united nutlets.



Green Manzanita at Glacier Point.

—McCrary, NPS



The Yosemite Indians used these berries in making a pleasing cider-like beverage.

*Green Manzanita*

(*Arctostaphylos patula*)

This shrub is found in the Transition and Canadian Zones, in open forest or on open slopes. It is abundant in open forest on both walls and rims of the valley above 6000 feet; abundant below the north side of Sentinel Dome and the chaparral slope above Union Point; found occasionally on slopes of the north wall down to Columbia Point; rarely on the valley floor, seen only among the boulders behind the Old Village.

The stems of green manzanita are erect, four to six feet high and branched, forming a bushy shrub with rigid, crooked branches. The bark is smooth, bright reddish-brown and not exfoliating, and the branchlets are glabrous.

The leaves are dark green and glabrous, oval to obcircular, obtuse broad at the base, one to two inches long, three quarters to one and three quarters inches broad, and mostly rounded or heart shaped at the base and firm and leathery in texture.

The urn-shaped, deep pink flowers are a quarter inch long and are borne in dense, round terminal clusters, the pedicels being glabrous. The fruit is chestnut brown, globose and depressed, hard to open, and about one third inch broad. The juice of the fruit is similar to that of green apple and may be used to quench one's thirst. They are eaten by mammals as food. The Yosemite Indians use these berries also to make manzanita cider. The nutlets are rounded on the back and are nearly smooth.

*Dwarf Manzanita*

(*Arctostaphylos nevadensis*)

This shrub is found in the Canadian and Hudsonian Zones, in open



—McCrary,

Dwarf Manzanita near Sentinel Dome.

the forest. In Yosemite it is found at elevations as low as 4,500 feet but generally above the valley floor. It may be found at Gin Flat, Illilouette Falls, Eagle Peak, Glacier Point, Clouds Rest, along the Pohono Trail, and elsewhere at timber line.

Dwarf manzanita is a low, prostrate, depressed shrub, often forming a rough, low thicket over the forest floor. The erect branches may attain the height of six or nine inches and may spread out for one or two feet. The bark is reddish-brown and

exfoliating.

The leaves are ovate to oblanceolate, commonly narrowly obovate, roundish to acutish at the apex, tipped with a soft point, glabrous or minutely hairy, bright green on both surfaces, and one half to one inch long.

The pinkish flowers are borne in short, simple or few branched racemes and are about one quarter inch long. The flower stalks are glabrous and one-sixteenth of an inch long.

## MOUNTAIN AND FORESTS SPEAK

The voice of the wind has spoken  
 In the trees is a sweet refrain.  
 Laughter in rhythm comes rippling  
 From a waterfall making its rain.  
 Blossoms of dogwood are gleaming  
 In satin white, orange, and green.  
 Springtime all dressed in her finery,  
 On top, below, and between.

Should now these majestic mountains  
 In finery, cut out in pain,  
 Because of a careless camper  
 Who had let his fire inflame,  
 This greatest and beauteous garden,  
 By leaving an ember to glow.  
 Their cries would be shaking asunder,  
 Walls greater than Jericho.

Yet People are treating so lightly  
 That which is the poets' lore,  
 And for all artists a playground  
 Of stillness. A sanctified floor,  
 Where is dwelling the school of nature,  
 And the noblest of things are wrought,  
 By those here in meditation,  
 Who are elevating their thought.

—Alfred E. Brighton

## 1958 CHRISTMAS BIRD COUNT IN YOSEMITE

By W. J. and Erma Fitzpatrick

The annual Christmas Bird Count taken in and adjacent to Yosemite National Park between El Portal (elevation 2,000 ft.) and Shippey Meadow (elevation 7,000 ft.) and including Yosemite Valley, was conducted on December 30, 1958 under ideal conditions. Clear skies, no wind, and mild temperatures were characteristic. Temperatures ranged from 24° to 65° with snow and ice being encountered only from about 4,000 ft. upwards.

Twenty observers, working in four parties, recorded 60 species and 2,044 individuals. This did not equal the previous year's all-time record of 65 species, but the count was highly successful nevertheless. The average was well above usual, and of unusual interest were the large numbers of Band-tailed Pigeons, Pygmy Owls and Dippers observed. Widespread interest was indicated by the fact that participants came from points as far distant as San Francisco and North Hollywood. The participants were: Mignon Augsburg, Katharine Coakley, Gerald Conley, Lydia Fatzinger, Erma Fitzpatrick, Michael Fitzpatrick, W. J. Fitzpatrick, Zelda Garey, Mrs. Edmond S. Gillette, Jr., Gale Glass, Jane Glass, Bob Grom, Douglass Hubbard, Vergena Koller, Bill Pruner, Ginny Ann Sturm, Mary Lou Sturm, John Townsley, Mary Curry Tresidder, and Sig Zachwieja.

The detailed count follows: Great Blue Heron, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 2; Golden Eagle, 1; Sparrow Hawk, 5; Mountain Quail, 1; Band-tailed Pigeon, 3; Mourning Dove, 50; Pygmy Owl, 1; Anna's Hummingbird, 1; Belted Kingfisher, 6; Red-shafted Flicker, 1; Acorn Woodpecker, 29; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 2; Downy Woodpecker, 1; Nuttall's Woodpecker, 7; White-headed Woodpecker, 2; Black Phoebe, 6; Steller's Jay, 86; Scrub Jay, 28; Mountain Chickadee, 1; Plain Titmouse, 23; Common Bush-tit, 92; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 4; Brown Creeper, 10; Wren-tit, 5; Dipper, 19; House Wren, 1; Winter Wren, 6; Bewick's Wren, 3; Canyon Wren, 11; Robin, 1; Robin, 157; Varied Thrush, 33; Hermit Thrush, 6; Western Bluebird, 35; Townsend's Solitaire, 1; Golden-crowned Kinglet, 180; Ruby-crowned Kinglet, 111; Cedar Waxwing, 20; Hutton's Vireo, 1; Audubon's Warbler, 6; House Sparrow, 100; Purple Finch, 8; Cassin's Finch, 1; House Finch, 4; Pine Siskin, 1; Lesser Goldfinch, 23; Rufous-sided Towhee, 59; Brown Towhee, 85; Lark Sparrow, 100; Rufous-crowned Sparrow, 1; Slate-colored Junco, 1; Canyon Junco, 187; White-crowned Sparrow, 7; Golden-crowned Sparrow, 98; Fox Sparrow, 11; Song Sparrow, 5.



## YOSEMITE'S KING SNAKES

By John D. Cunningham, Ranger-Naturalist

not uncommonly in the Yosemite region, mountain king snakes (*Lampropeltis zonata*) are discovered which are red in their dorsal coloration. Even when red is present it is frequently faded to a light purple, especially in juveniles, and only a close inspection will reveal its presence at all. If such snakes are "keyed out" by means of a color key they would be classified as the California king snake (*Lampropeltis getula Californae*). The only sure way to determine the difference between a black and white mountain king snake and a California king snake is to look at the anterior supralabials, the scales on the upper jaw nearest the snout. If these scales are black the snake is *Lampropeltis zonata*; if they are light, with or without dark edges, the snake is *L. getulus*. When one becomes familiar with the two species, however, their general appearance and behavior are usually sufficient to distinguish them. The California king snake most commonly encountered in Yosemite is the mountain king snake.

Much has been said concerning the relationship of king snakes and rattlesnakes. The diet of the king snake is actually quite variable, although they feed upon snakes to a

greater extent than most other species. Rattlesnakes are not ignored, if small enough to swallow, but there is no evidence that the king snake makes a special search for them or prefers them to other snakes. King snakes are relatively immune to the bite of a rattlesnake and can survive a dose that would make a human, weighing 300 times as much, seriously ill. If the fangs of the rattler penetrate some vital organ, such as the heart, brain, or lung, the king snake would probably succumb from the effect of the venom.

When capturing a rattlesnake, the king snake usually makes no special attempt to secure the rattler's head. Thus the rattlesnake is frequently free to bite and usually does. Although they will throw body coils around the rattler to secure it during the swallowing process.

When in the presence of king snakes, rattlers react in a very peculiar manner. The central portion of their body is raised, the head and tail anchoring the rattler to the ground, and this loop is brought down upon the king snake like a club. The California king snake is the usual enemy of the rattler, although a few cases are on record of racers (*Masticophis ssp.*) eating small rattlesnakes.

**REMEMBER WHEN?**

—Yosemite Museum

Many early visitors entered Yosemite Valley over the Big Oak Flat Road before portions of it were destroyed by rock slides. At least one visitor was more impressed by the camera than the magnitude of El Capitan!

## PUBLICATIONS FOR SALE AT THE YOSEMITE MUSEUM

All mail orders should be addressed to, and remittances made payable to, YOSEMITE NATURAL HISTORY ASSOCIATION, YOSEMITE NATIONAL PARK, CALIFORNIA. Prices include postage, insurance, and on proper items, California State Sales Tax 3%, plus 1% County Tax.

### GENERAL

|   |        |
|---|--------|
| Adams' Guide to Yosemite Valley, Illustrated .....                        | \$1.65 |
| Auto Tour of Yosemite Valley, Self-Guiding - Beatty and Harwell .....     | .30    |
| Auto Tour of Yosemite National Park - Ditton and McHenry .....            | .60    |
| Composite Finder (Western) - Hartesveldt .....                            | 1.65   |
| Climbers Guide to High Sierra - Sierra Club .....                         | 3.25   |
| Devils Postpile National Monument - Hartesveldt .....                     | .30    |
| Exploring Our National Parks and Monuments - Butcher (paper) .....        | 3.75   |
| Exploring Our National Parks and Monuments - Butcher (cloth) .....        | 5.40   |
| Going Light - With Backpack or Burro - Sierra Club .....                  | 2.25   |
| Hoppy Isles Nature Center, Your Guide to - Hubbard .....                  | .20    |
| National Park Story in Pictures - Story .....                             | .80    |
| National Parks, The - What They Mean to You and Me - Tilden (cloth) ..... | 6.20   |
| National Parks, The - What They Mean to You and Me - Tilden (paper) ..... | 1.15   |
| Nature Trail - Inspiration Point Self-Guiding - Carpenter .....           | .20    |
| Nature Trail - Mariposa Grove Self Guiding - Wason .....                  | .20    |
| Outdoor Hazards - Real and Fancied - Hood .....                           | 4.25   |
| Place Names of Yosemite Valley - Hartesveldt .....                        | .30    |
| Rocks & Minerals, How to Know Them - Pearl .....                          | .65    |
| Storr's Guide to John Muir Trail and High Sierra Region .....             | 2.25   |
| This is California - Obert .....  | 8.00   |
| Waterfalls, Famous, of the World - Brockman .....                         | .60    |
| Yosemite and the Sierra Nevada - Ansel Adams & John Muir .....            | 12.70  |
| Yosemite Story, The - Scott .....   | 1.20   |
| Yosemite Trails & Tales - Taylor .....                                    | .90    |

### ANIMAL LIFE

|  |      |
|--|------|
| Animal Tracks, Field Guide to - Murie .....                      | 4.30 |
| Birds of Pacific States - Hoffman .....                          | 6.20 |
| Birds, Western, Field Guide to - Peterson .....                  | 4.30 |
| Birds of Yosemite - Stebbins .....                               | .85  |
| Fishes of Yosemite National Park - Evans-Wallis .....            | .50  |
| Mammals, Field Guide to - Burt and Grossenheider .....           | 4.30 |
| Mammals of Yosemite National Park - Parker .....                 | .60  |
| Reptiles and Amphibians of Yosemite National Park - Walker ..... | .45  |
| Survey of Sierra Nevada Bighorn - Jones .....                    | .60  |

### TREES AND FLOWERS

|   |      |
|---|------|
| Broodleaved Trees of Yosemite National Park - Brockman .....      | .60  |
| Cone-bearing Trees of Yosemite National Park - Cole .....         | .50  |
| Ferns, Field Guide to - Cobb .....                                | 4.30 |
| Sequoias, Yosemite, Guide to the - McFarland .....                | .50  |
| Wildflowers, Common, of Yosemite - Beatty, Harwell and Cole ..... | .25  |
| Wildflowers of the Sierra (80 color photos) - Hubbard .....       | .55  |
| Wildflowers, Western, Field Book of - Armstrong .....             | 5.40 |

### STORY AND INDIANS

|  |      |
|--|------|
| Ghost Mines of Yosemite - Hubbard (paper) .....            | 1.20 |
| Ghost Mines of Yosemite - Hubbard (cloth) .....            | 3.00 |
| Gold, Guns and Ghost Towns - Chalfant .....                | 3.80 |
| Indians, Yosemite, Yesterday and Today - Godfrey .....     | .35  |
| John Muir, Protector of the Wilds - Haines-Morrill .....   | 2.00 |
| Miwok Material Culture - Barrett and Gifford (paper) ..... | 2.20 |
| Miwok Material Culture - Barrett and Gifford (cloth) ..... | 3.25 |
| Mother Lode Country, Guide to the - Brockman .....         | .60  |
| 100 Years in Yosemite - Russell (paper) .....              | 2.20 |
| 100 Years in Yosemite - Russell (cloth) .....              | 3.25 |
| One Thousand California Place Names - Gudde .....          | 1.15 |
| Steve Mather of the National Parks - Shankland .....       | 6.20 |
| Wilderness World of John Muir, The - Teale .....           | 4.85 |
| Yosemite: The Story of An Idea - Huth .....                | .35  |

### GEOLOGY AND MAPS

|   |      |
|---|------|
| Geologic History of Yosemite Valley (Prof. Paper 160) - Matthes .....             | 5.75 |
| Geology of Yosemite Valley, Brief Story of - Beatty .....                         | .25  |
| High Sierra Camp Areas, Pocket Guide to - Clark .....                             | .60  |
| High Sierra Camp Areas, Trail Guide to - Clark .....                              | 1.15 |
| Incomparable Valley, The - Matthes (paper) .....                                  | 2.15 |
| Map of Sequoia-Kings Canyon NP, Topographic - USGS .....                          | 1.15 |
| Map of Yosemite National Park, Topographic - USGS .....                           | .60  |
| Map of Yosemite Valley, Topographic, shaded (geology story printed on back) ..... | .60  |
| North Country of Yosemite, Pocket Guide to - Clark .....                          | .60  |
| North Country of Yosemite, Trail Guide to - Clark .....                           | 1.15 |
| South Boundary Country, Pocket Guide to - Clark .....                             | .60  |
| South Boundary Country, Trail Guide to - Clark .....                              | 1.15 |

### FOR CHILDREN

|  |      |
|--|------|
| A Day with Tupi, An Indian Boy of the Sierra - Hubbard (paper) ..... | 1.20 |
| A Day with Tupi, An Indian Boy of the Sierra - Hubbard (cloth) ..... | 3.00 |
| Animal Friends of the Sierra - Hubbard (paper) .....                 | 1.20 |
| Animal Friends of the Sierra - Hubbard (cloth) .....                 | 3.00 |





Spring



Summer



Autumn



Winter

*at any season*

*an  
appropriate  
gift*

*Yosemite*

*Nature Notes*

A subscription for you or gift subscriptions for your friends will bring the Yosemite story, told accurately and interestingly, twelve times a year.

**Each subscription: 1 year \$1.50; 2 years \$2.50; 3 years \$3.50.**

Revenue from the activities of the Yosemite Natural History Association is devoted entirely to assisting the park naturalist division in the furtherance of research and interpretation of the natural and human story in Yosemite National Park.

Send subscriptions to:

**YOSEMITE NATURAL HISTORY ASSOCIATION, INC.  
BOX 545, YOSEMITE NATIONAL PARK, CALIFORNIA**

# YOSEMITE

VOLUME XXXVIII - NUMBER 3

MARCH 1959





